



PCT09

ENTERED

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/857,372C

DATE: 10/24/2002

TIME: 16:22:51

Input Set : A:\JAB-1430.txt

Output Set: N:\CRF4\10242002\I857372C.raw

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3 <110> APPLICANT: Contreras, Roland
4     Nelissen, Bart
5     DeBacker, Marianne
6     Luyten, Walter
7     Viaene, Jasmine
8     Logghe, Marc
10 <120> TITLE OF INVENTION: Drug Targets in Candida Albicans
12 <130> FILE REFERENCE: 53731/000
C--> 14 <140> CURRENT APPLICATION NUMBER: US/09/857,372C
15 <141> CURRENT FILING DATE: 2001-09-24
17 <150> PRIOR APPLICATION NUMBER: 982204122.0
18 <151> PRIOR FILING DATE: 1998-12-04
20 <160> NUMBER OF SEQ ID NOS: 22
22 <170> SOFTWARE: PatentIn Ver. 2.0
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 438
26 <212> TYPE: DNA
27 <213> ORGANISM: Candida albicans
29 <400> SEQUENCE: 1
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32 tcataatata tcattgccata tctactaatg tacataaatt agaagatgaa accccatcat 180
33 ctccatttac cagaacaaat actactgaaa ctactgttgc aagtaagaaa aagaagtaat 240
34 aactgatgga tttttcttcc taccaccaat tgaataatgc tagacttggt ggtgtgctac 300
35 aaatatttca aaagaaaata cgaatacttt ataaaatggt aagaacggaa gatggtttct 360
36 catttatata ctaaatacaa atcacatata catacacaaa cacaatatata tacatacacc 420
37 tatatccctt tatttgat                                     438
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40 <211> LENGTH: 1380
41 <212> TYPE: DNA
42 <213> ORGANISM: Candida albicans
44 <400> SEQUENCE: 2
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47 actattggtc atgttgatca tggtaaaact acattgactg ctgctatcac caaagtttta 180
48 gccgaacaag gtggtgccaa cttcttggat tatggttcta ttgatagagc tccagaagaa 240
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52 agagaacatt tgttattggc cagacaagtt ggtgttcaag acttggttgt gtttgtcaac 480
53 aaagtcgata ctattgatga ccctgaaatg ttggaattag tcgaaatgga aatgagagaa 540
54 ttgttatcca cctacggttt tgatggtgac aacactccag ttattatggg atctgcttta 600
55 atggcttttg aagacaagaa accagaaatt ggtaagggaag ctatcttgaa attgttagat 660

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56 gctgtcgatg aacacattcc aactccatca agagacttgg aacaaccatt tttgttacca 720
57 gttgaagacg tgttctccat ctccggtaga ggaactgttg tctactggtag agttgaaaga 780
58 ggtgttttga agaaggggtga agaaatcgaa attgttggtg gttttgacaa accttacaag 840
59 actactgtta ccggtattga aatgttcaaa aaagaattag actctgctat ggctgggtgac 900
60 aactgtgggtg ttttgttaag aggtgttaaa agagatgaaa tcaagagagg tatggttttg 960
61 gccaaaccag gtactgctac ttctcacaag aagttcttgg ctctccttga tattttgact 1020
62 tccgaagaag gtgggtcgtt cactccattt ggtgaagggt acaagcctca atgcttcttc 1080
63 agaactaacg atgtcactac cacattttca tcccagaag gagaagggtg tgatcattct 1140
64 caaatgatca tgccagggtg caacattgaa atgggttggtg aattgatcaa atcttgtcca 1200
65 ttagaagtca accaacgttt caacttgaga gaagggtggtg aaactgttgg tactgggttg 1260
66 attaccagaa tcatcgaata aacagaatgt gcactgtgaa taataaaaag aaaagaggta 1320
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69 &lt;210&gt; SEQ ID NO: 3

70 &lt;211&gt; LENGTH: 2283

71 &lt;212&gt; TYPE: DNA

72 &lt;213&gt; ORGANISM: Candida albicans

74 &lt;400&gt; SEQUENCE: 3

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75 gaattcgccc ttaagcactc gtttcaacta tacattcagt aacaacaccc ttaatttacc 60
76 aaactacatt aatggaagta acacaacgga cgcagagtca gacacaacca acacaacagt 120
77 caccgacaac tcagacgcaa acccaaagca aagaggacca gaataggatt tgtcaattga 180
78 tttgtctcac gggtcagttt ggcaattatg atttgaatat caacgataaa actatcgtac 240
79 aaggtaaaat gacgtgggat tttggaagag accccaactc agatttgcaa gtggcgctcg 300
80 cgctcgagaat ttcaaacaaag cattttcaaa tctggctcaa cttcaatgat aaatcactat 360
81 ggataaagga cacttcaact aacgggacac accttaacaa cagtcgattg gtgaaaggat 420
82 caaactacct tcttaatcag ggtgatgaaa tagcagtagg ggttggtaga gacgaggacg 480
83 ttgtgagggt tgtcgtttgc tttggtgaca aatacaaccc ggcaaagcta cctgattcga 540
84 ccaacacaat taaagatgaa ggaatataca aagactttat tgtgaaaaat gaaacgatag 600
85 gccaaaggagc atttgccact gtgaaaaagg cgattgaacg atctacgggc gagtcgtacg 660
86 cgggtgaagat tataaatcga agaaaagcat taaataccgg tgggtggaagt gccatggcag 720
87 gagtggaccg tgaattgtcc atattagagc ggctcaacca cccaaatata gttgctctaa 780
88 aagcttttta tgaagatatg gacaattact atattgtgat ggaattgggt cccggcggtg 840
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90 cgaaacagat tctagaagga attgcctatg ttcataattt aggaatctcc catcgtgatt 960
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93 cgtatgttgc tccgaaggt atcaccggtg agtatggatc atcgagatg gaactgcaac 1140
94 aaaaggacaa ctactcttcc ttggttgaca tttggtcttt gggatgtttg gtttatgtac 1200
95 ttttaacttc tcattttacca ttcaacggga aaaaccagca acaaatgttt gccaatatca 1260
96 aaaggggcga atttcatgag gctccattaa attcatacga catttctgaa gacggaagag 1320
97 atttcttgca gtgctgccta caggttaatc cttaactaag gatgacggct gctgaagctt 1380
98 tgaaacataa atggttgcaa gacttgtatg aagaggattc tgtcaaatac ttgagtttat 1440
99 cgcaatcaca gtcgcaacaa tctcgaaaga tagataatgg tatccatata gaatcattga 1500
100 gcaaaattga tgaagacgtt atgcttcgtc cattggatag cgaaagaaat aggaaatcaa 1560
101 gtaaacagca agatttcaag gtacccaagc gtgtgattcc gttatctcaa catcctgcaa 1620
102 caccgttacc aatgtcacia ccgaaaaaga ggccgtatca aatagaccct agaacaaaca 1680
103 aaaaagtcga tttggaagaa cctctgacaa gcaagaaagt caagctaagt gattccgttg 1740
104 ttgcggaaga ctacttgaag ttggggccac ttgcaaattc gttattccaa gaaacaataa 1800
105 atatttcaaa gtccccgttt tctttcggaa gaaatgacac ttgtgattgc gagatagacg 1860
106 acgacagact atccaaactt cattgtgtca ttaccaaaaga aaacgactct atatggttat 1920

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107 tggataagag tactaactcg tgcttgggtca acaataactag tgttggaaaa ggcaacaaag 1980
108 ttttgcttag aggaggggag atattacatc tcttctttga cccattgtca ctgcaacata 2040
109 taggtttcaa agtagtcctt gttgatcaac tgtctgggtga acataagagt caagtggagg 2100
110 ttttgaaaca aacctcagaa gaaatgaata ttattccact tatttctggt ttaagtagta 2160
111 taagttcata gatttagcat atatacaagc atttctata gaaacaaagg ttcattaatt 2220
112 tagttattta cctccatgca attacattta cttcttcttc caagggcgaa ttctgcagat 2280
113 atc 2283

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115 &lt;210&gt; SEQ ID NO: 4

116 &lt;211&gt; LENGTH: 826

117 &lt;212&gt; TYPE: DNA

118 &lt;213&gt; ORGANISM: Candida albicans

120 &lt;400&gt; SEQUENCE: 4

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121 atgggtagta tgtgaagata caatattgaa agtggttact agaatatcta agatgtttga 60
122 gcccatggac atttttggat ttgataatta aaaaaagtag caatagatta ttgcgttggg 120
123 gaaagaatca ccatagttgc aagatttgat agatgttaaa atgttcacgc aggcgaaaga 180
124 tgtaacatct cttaaagtaa gaagaatatg gacatgaata aaaatagata gcactatttt 240
125 ggaacttggt gaagatatta aaatagaatg ggatttcaac atagatattc aaagtaacga 300
126 aacctcacia tcaataaaaa acaacagtaa tactaacaat tcaattttta tttttataga 360
127 gggtaactcca tcttttaggt aacgtcacaa caaatctcac accttatgta acagatgtgg 420
128 ccgtcgttca ttccacgtcc aaaagaagac ctgttcttct tgtggttacc cagctgctaa 480
129 aatgagatct cacaactggg ccttaaaagc caaaagaaga agaactactg gtaccggtag 540
130 aatggcttca ttgaaacacg ttaccagaag attcaagaac gggttcacaa ctggtgttgc 600
131 taaagctcaa accccttcg cttaaaacta ttactgaagt tattggtcat gcattagtca 660
132 ttattcatta aagtcatggt aagcatagca aaggaagaat tggttagatt cttgtttaaa 720
133 atgtaatgac tatttaatat ctgtttaaat aagaggttta gtctttattt ttttacgtat 780
134 acaccaaaaa aaaaagaac aaataaaatc tgtatatata tgttgg 826

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136 &lt;210&gt; SEQ ID NO: 5

137 &lt;211&gt; LENGTH: 978

138 &lt;212&gt; TYPE: DNA

139 &lt;213&gt; ORGANISM: Candida albicans

141 &lt;400&gt; SEQUENCE: 5

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142 atgggtacta gtacaagtga agcattgaag aacatcaaaa acaaacagcg aagacagaaa 60
143 gtttttgtag aaataaaaaca tgaaaagaat aaacaacgtc ataagcaaag agccgaaaga 120
144 gctaaggaag aaagagaaaa ccccgaatta agagaggaaa gaatagcagc taatatccca 180
145 gatactatag atagcaaacg tatttatgat gagactatag ctgctgaagt tgaaggagat 240
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148 aatgtgacat ttatcaaaag gaagaaggaa tatacaatgc aagatatggc caaatattgc 420
149 tcgaatagag acttctactgc attgcttgtc atcaacgaag acaagaagaa ggtcaatggg 480
150 ataacgtca tcaatttacc tgaagggcca acattttatt tttcgattac atcaatagtt 540
151 gatgggaaaa gaatttaagg acacgggaaa gctggtgatt atttacctga gattgtattg 600
152 aataatttca attcaagatt gggtaaaact gtgggaagac tatttcaaag tattttccct 660
153 cataaacctg aacttcaagg aagacaagtg attactttgc acaatcaacg tgattatatt 720
154 tttttcagaa gacatagata ttttttcaga aatgaggaaa aggttggatt gcaggaattg 780
155 ggtccgcagt ttacattaaa gctaagaaga atgcaaaagg gagtacgtgg tgatgttgtt 840
156 tgggaacaca gaccagatat ggaaagagat aagaagaagt tttatttata agcgggtgta 900
157 taaaggtagt agtagtgcgt ttataagtat gtgtgtgtgt ttatgcatag atgtgtaaag 960
158 agtaatacag ctaattcg 978

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160 &lt;210&gt; SEQ ID NO: 6

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Input Set : A:\JAB-1430.txt

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161 <211> LENGTH: 619
162 <212> TYPE: DNA
163 <213> ORGANISM: Candida albicans
165 <220> FEATURE:
166 <221> NAME/KEY: misc_feature
167 <222> LOCATION: (597)...(598)
168 <223> OTHER INFORMATION: n = any nucleotide
170 <220> FEATURE:
171 <221> NAME/KEY: misc_feature
172 <222> LOCATION: (613)
173 <223> OTHER INFORMATION: n = any nucleotide
176 <400> SEQUENCE: 6
177 aactaatttg tttaaacatc aataccaaga agttttttaca attcaatccc acatacacca 60
178 ttaattatga attctgaaaa gattattgaa gttatcattg ctattttctt accaccagta 120
179 gctgtgttta tgaaatgtgg tgccactacc ccattatgga ttaacttggt attatgtatc 180
180 tttatttggt tccctgctat cttacatgcc ttatacgttg tgttgaaaga ttaaacaac 240
181 accagagatt tactgcttga tgaattgatt actccaaaga gttgtgacta gttcccagtg 300
182 tgtttttttt gccttccaac tttcttttac atttttccat tactaccact gtcttcccc 360
183 ctattttgca gagttttcaa aatttatcca aaacatgtta gtcattaaac catattatta 420
184 taattattct tttttgtatt tttttccctt aaaacacggt aatttattaa tcgtttcggt 480
185 gtttggtatt ttattttttt gtatttatca attggaatat atatctatac atgaatttat 540
W--> 186 tatccattgt accaattggt aaaacatttt gttagttttt tgttactagt ataaaannat 600
W--> 187 aataaaagt tanttcaac 619
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190 <211> LENGTH: 2319
191 <212> TYPE: DNA
192 <213> ORGANISM: Candida albicans
194 <400> SEQUENCE: 7
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196 ccataaatct tggaaatcgc agccaccaat tctcaaaata aatcgagaag gctaagtatg 120
197 gataatggtc attgttatgt tcgtgaatca actaataatc atcatcattt aaataccgtc 180
198 gttgataatt tacgacagcg tgcgggatcg ttttcattta tttcacatca ccataatcac 240
199 catcagaata gtcacgataa ttatactgtc gatccccctt catcaaacgg agcacgaatt 300
200 tcccgatcac gttcacgttc caaatcagtt gggcacggag aagcaatatc accagcgtat 360
201 ttttccaaga ataaaacca agatttagtg aaacaggaaa cagcacatat cattctgaag 420
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203 tcacaagggt cagaatcaaa gttttgtaaa atctacgtgt ctaacactaa taattgtatt 540
204 taattaccag cagcaagttc aacaagtttc acttatgaag atgatgaaa tggcggcggt 600
205 ataattgctg aagatagaaa tgatgaaatg ccaacagcag ttaataacaa tactttgtca 660
206 atggatagta taaatcattc agagactgat ttcctggatt ctccaccacc tccagattta 720
207 ttttctaaaa tgaaatcatt ccattcacca aattacttga cttcaaaaat cgattctgaa 780
208 tgtccaattc cacatacatt tgctgtgatt gttgaattaa ccaaggactc tttgattatt 840
209 aaagatcttc atttccaatt tcagtcatta actaccattt tatggccaac tggggatgca 900
210 tataatcgga ctcatgccaa ggagaaattt accattggga atatggaatg gcgtacatct 960
211 ttaagcgacg ccgactatta tatcaatagt tctaattcca acgatgttaa gctgaaaaac 1020
212 ttgggtcctg aagatcttat taatcgaact agagaatata aattaatcga tattgaagaa 1080
213 ccaaacaatt catcaaacag tttactggat gatgacatgg atattaataa tattacgtcg 1140
214 ccattatcaa cgtcaccaac atcaagttca acttcaacaa attcaacctc caactcattg 1200
215 ggttcagatt catataaagc tgggtctttat gtatttttat taccaatctt attgccagaa 1260

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217 tgcaataaat atactgataa gttgaatcgg aaatcaaaag tatkagcatc gtacaattta 1380
218 cctatgggtcc gtactccacc aaacattggg aattccattg ctgataagcc aatttatgtt 1440
219 aataggatttt ggaatgatgc cgtacattat attataactt tcccccgcaa atatgttact 1500
220 ttgggtttgtg aacacatgat aaatgtgaaa ttactgccc a tggtgaaaga tgtggttatc 1560
221 aagcgtatta aatttaattgt attggagaga ataacttatg tttccaaaaa tttatcacga 1620
222 gaatatgatt atgatagtga agacccttat tgtattcatc cagttttctaa agaaaataaa 1680
223 gtacgtgaac gtgtttgtgtc gttatatgaa ttgaaaacga aggcaaaaca atcttctggt 1740
224 ggacatcttg aagcttataa acaagaagtt atgaaatgtc cggaaaataa ctttttattt 1800
225 tcttgttatg aggttgaaaa tgataataat aacggcaacg gcaacggcaa cggcaacgga 1860
226 aacaagaacg ttaaacaaaa gaataaagat caaccaatga ttgctacacc tttagatata 1920
227 aatgtttctt taccattttt aactactatg tctgatagtt taattatgac atcagccata 1980
228 gaagaagaag gttcagatct gcctcatata tcaagaagag ggtcggcagt gagtatgact 2040
229 gataataata ctaccccaag taacaataac cttttatctc cttttttggg agcagtggaa 2100
230 actaatggtg ctagtataaa tgaaattggt gatcatacat tattccctga ttctaatttt 2160
231 cgacatattg aaattaaaca tcgattacaa gttacattta ggattttctaa accggatctg 2220
232 gataataaaa tgcataatta tgaagtgtt attgataccc ccatacgtttt acttagttca 2280
233 aaatgtcaag aagattctcc tcctccttat agttctgta 2319

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235 &lt;210&gt; SEQ ID NO: 8

236 &lt;211&gt; LENGTH: 255

237 &lt;212&gt; TYPE: DNA

238 &lt;213&gt; ORGANISM: Candida albicans

240 &lt;400&gt; SEQUENCE: 8

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241 aacgttcgtg caaaaggcta tactggtgat atccacgcag atgaagagca agtttaaatca 60
242 actctttgtc aattaatgct gtacttggtt tcattttatt tgctggcatt taaagaatac 120
243 ccatagttca gaaaataaaa ttgaaaaatt taaaaaaaaa cgcaatatca ttcatttttt 180
244 ttgttttttt gacaataata ttaatatgta gttaccaatg ttttttagatt ttatatgttt 240
245 tgaaaaaata gtttg 255

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247 &lt;210&gt; SEQ ID NO: 9

248 &lt;211&gt; LENGTH: 119

249 &lt;212&gt; TYPE: DNA

250 &lt;213&gt; ORGANISM: Candida albicans

252 &lt;220&gt; FEATURE:

253 &lt;221&gt; NAME/KEY: misc\_feature

254 &lt;222&gt; LOCATION: (45)

255 &lt;223&gt; OTHER INFORMATION: n = any nucleotide

257 &lt;400&gt; SEQUENCE: 9

```

W--> 258 aaccttacaa tcattatacc aactatcaaa atcataagac tcttnaactt ctgtttttga 60
259 tagttggtat aatgatttat gtattatctt aattcattat tattagtttc ggtcacaaa 119

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261 &lt;210&gt; SEQ ID NO: 10

262 &lt;211&gt; LENGTH: 60

263 &lt;212&gt; TYPE: PRT

264 &lt;213&gt; ORGANISM: Candida albicans

266 &lt;400&gt; SEQUENCE: 10

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267 Met Ile Thr Asp Glu Gln Leu Asn Thr Ile Ala Leu Thr Phe Gly Phe
268   1           5           10           15
270 Ala Ser Ile Ile Leu Ile Ile Ile Tyr His Ala Ile Ser Thr Asn Val
271           20           25           30
273 His Lys Leu Glu Asp Glu Thr Pro Ser Ser Ser Phe Thr Arg Thr Asn

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:6; N Pos. 597,598,613

Seq#:9; N Pos. 45

## VERIFICATION SUMMARY

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Input Set : A:\JAB-1430.txt

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L:14 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:540  
L:187 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:600  
L:258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
L:797 M:283 W: Missing Blank Line separator, <220> field identifier